

MULTI-LAYER Pt ELECTRODE FOR DRAM AND FRAM
WITH HIGH K DIELECTRIC MATERIALS

5 ABSTRACT

 A multi-layer electrode (246) and method of
fabrication thereof in which a conductive region (244) is
separated from a barrier layer (222) by a first
conductive liner (240) and a second conductive liner
10 (242). First conductive layer (240) comprises Pt, and
second conductive liner (242) comprises a thin layer of
conductive oxide. The multi-layer electrode (246)
prevents oxygen diffusion through the top conductive
region (244) and reduces material variation during
15 electrode patterning.